SOAR Conference August. 1993

Barbara E. Holder Jet Propulsion Laboratory California 1 nstitute of Technology

Tit.] e: Usi ng Task Anal ysis to Underst and the Data Sys tem Opera t i ons Team

Abst ract

The Dat a System Operat i ons Team (1) S0'1') currently monitors and con trol s the Mu] t imi ssi on Ground Dat a Syst em (MGDS) at NASA' s Jet Propulsi on Laboratory. The MGDS currently support s f i ve spacecraf t and wi thi n the next f i ve years i t. wi 11 support ten spacecraft simul taneously. The ground processing element of the MGDS consists of a distributed UN] X-based system of over 40 nodes and 100 processes. The MGDS syst emprovides operators with little or no i nf ormat i on about the syst em's end-to-end processing status or end- to- end conf i gurat i on . The lack of syst em vi sibi 1 i ty has become a criticalissue in the daily operation of the MGDS. A task analysis was conducted to determine what. kinds of tools were needed to provide DSOT with useful status, information and to pri oritize the tool development. The analysis provitied the formality ant structure needed to get the right information exchange between development and operations. This paper describes how even a srna 11 seal e task an alysis can improve devel oper operator rel at. i ons and the challenges associat. ed with conducting a task analysis in a real - time mission operations environment.